

WHAT IS CLAIMED IS:

1. An inbred tomato seed designated 294 wherein a sample of said seed has been deposited under ATCC Accession No. _____.
2. A tomato plant, or parts thereof, produced by growing the seed of claim 1.
3. Pollen of the plant of claim 2.
4. An ovule or ovules of the plant of claim 2.
5. A tomato plant, or parts thereof, having all of the physiological and morphological characteristics of the tomato plant of claim 2.
6. The tomato plant of claim 2, wherein said plant is male sterile.
7. A tissue culture of regenerable cells of a tomato plant of claim 2.
8. The tissue culture of claim 7, selected from the group consisting of protoplast and calli, wherein the regenerable cells are derived from embryos, protoplasts, meristematic cells, callus, pollen, leaves, anthers, stems, petioles, roots, root tips, fruits, seeds, flowers, cotyledons, hypocotyls
9. A tomato plant regenerated from the tissue culture of claim 7, capable of expressing all the morphological and physiological characteristics of inbred tomato line 294, representative seeds having been deposited under ATCC number _____.
10. A method for producing a hybrid tomato seed comprising crossing a first inbred parent tomato plant with a second inbred parent tomato plant and harvesting the resultant hybrid tomato seed, wherein said first or second parent tomato plant is the tomato plant of claim 2.
11. A hybrid tomato seed produced by the method of claim 10.
12. A hybrid tomato plant, or parts thereof, produced by growing said hybrid tomato seed of claim 11.
13. Tomato seed produced by growing said hybrid tomato plant of claim 12 and harvesting the resultant seed.
14. A method for producing a hybrid tomato seed comprising crossing an inbred plant according to claim 2 with another, different tomato plant.
15. A hybrid tomato seed produced by the method of claim 14.

16. A hybrid tomato plant, or its parts, produced by growing said hybrid tomato seed of claim 15.
17. Tomato seed produced from said hybrid tomato plant of claim 16.
18. A method for producing a 294-derived tomato plant, comprising:
- a) crossing inbred tomato line 294, a sample of seed of said line having been deposited under ATCC accession number _____, with a second tomato plant to yield progeny tomato seed;
 - b) growing said progeny tomato seed, under plant growth conditions, to yield said 294-derived tomato plant.
19. A 294-derived tomato plant, or parts thereof, produced by the method of claim 18, said 294-derived tomato plant expressing a combination of at least two 294 traits selected from the group consisting of: a relative maturity of 120 to 130 days, a determinate growth leading to plants having a semi-erect habit, medium size fruits, a deep globe shape, a uniform flesh color, a uniform ripening, resistant to Fusarium Wilt races one and two, resistant to Verticillium Wilt race one, resistant to root knot nematode, well adapted to California, Italy, Greece, Spain and France.
20. The method of claim 18, further comprising:
- c) crossing said 294-derived tomato plant with itself or another tomato plant to yield additional 294-derived progeny tomato seed;
 - d) growing said progeny tomato seed of step (c) under plant growth conditions, to yield additional 294-derived tomato plants;
 - e) repeating the crossing and growing steps of (c) and (d) from 0 to 7 times to generate further 294-derived tomato plants.
21. A 294-derived tomato plant, or parts thereof, produced by the method of claim 20, said 294-derived tomato plant expressing a combination of at least two 294 traits selected from the group consisting of: a relative maturity of 120 to 130 days, a determinate growth leading to plants having a semi-erect habit, medium size fruits, a deep globe shape, a uniform flesh color, a uniform ripening, resistant to Fusarium Wilt races one and two, resistant to Verticillium Wilt race one, resistant to root knot nematode, well adapted to California, Italy, Greece, Spain and France.

22. The method of claim 18, still further comprising utilizing plant tissue culture methods to derive progeny of said 294-derived tomato plant.
23. A further 294-derived tomato plant, or parts thereof, produced by the method of claim 22, said 294-derived tomato plant expressing a combination of at least two 294 traits selected from the group consisting of: a relative maturity of 120 to 130 days, a determinate growth leading to plants having a semi-erect habit, medium size fruits, a deep globe shape, a uniform flesh color, a uniform ripening, resistant to Fusarium Wilt races one and two, resistant to Verticillium Wilt race one, resistant to root knot nematode, well adapted to California, Italy, Greece, Spain and France.
24. The tomato plant, or parts thereof, of claim 2, wherein the plant or parts thereof have been transformed so that its genetic material contains one or more transgenes operably linked to one or more regulatory elements.
25. A method for producing a tomato plant that contains in its genetic material one or more transgenes, comprising crossing the tomato plant of claim 24 with either a second plant of another tomato line, or a non-transformed tomato plant of the line 294, so that the genetic material of the progeny that result from the cross contains the transgene(s) operably linked to a regulatory element.
26. Tomato plants, or parts thereof, produced by the method of claim 25.
27. A method for developing a tomato plant in a tomato plant breeding program using plant breeding techniques which include employing a tomato plant, or its parts, as a source of plant breeding material comprising: using the tomato plant, or its parts, of claim 2 as a source of said breeding material and wherein plant breeding techniques are selected from the group consisting of: recurrent selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, genetic marker enhanced selection, and transformation.
28. A tomato plant, or parts thereof, produced by the method of claim 27, said tomato plant expressing a combination of at least two 294 traits selected from the group of: a relative maturity of 120 to 130 days, a determinate growth leading to plants having a semi-erect habit, medium size fruits, a deep globe shape, a uniform flesh color, a uniform ripening, resistant to Fusarium Wilt races one and two, resistant to Verticillium

Wilt race one, resistant to root knot nematode, well adapted to California, Italy, Greece, Spain and France.

29. The tomato plant of claim 5, further comprising a single gene conversion.
30. The single gene conversion tomato plant of claim 29, wherein the gene is selected from the group consisting of: a transgene, a dominant allele, and a recessive allele.
31. The single gene conversion tomato plant of claim 29, wherein the gene confers a characteristic selected from the group consisting of: herbicide resistance, insect resistance, resistance to bacterial, fungal, or viral disease, male sterility, and improved nutritional quality.
32. A tomato plant, or parts thereof, wherein at least one ancestor of said tomato plant is the tomato plant of claim 2, said tomato plant expressing a combination of at least two 294 traits selected from the group consisting of: a relative maturity of 120 to 130 days, a determinate growth leading to plants having a semi-erect habit, medium size fruits, a deep globe shape, a uniform flesh color, a uniform ripening, resistant to Fusarium Wilt races one and two, resistant to Verticillium Wilt race one, resistant to root knot nematode, well adapted to California, Italy, Greece, Spain and France.